

Appln. Serial No. 10/723,037  
Amendment Dated March 1, 2007  
Reply to Office Action Mailed December 1, 2006

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

- 1 1. (Original) An automated storage system comprising:  
2 a data access drive operable to read and write computer-readable data on storage media;  
3 a drive controller provided at the data access drive;  
4 computer-readable program code provided in computer-readable storage at the data  
5 access drive, the computer-readable program code for generating drive information and user  
6 interface rendering data; and  
7 a user interface module outputting the drive information via a user interface in  
8 accordance with the user interface rendering data.
- 1 2. (Original) The system of claim 1 wherein the computer-readable program code includes  
2 a render engine to generate the user interface rendering data.
- 1 3. (Original) The system of claim 1 wherein the computer-readable program code includes  
2 a state machine to retrieve the drive information.
- 1 4. (Original) The system of claim 1 wherein the drive controller retrieves updated drive  
2 information if a data access drive changes state.
- 1 5. (Original) The system of claim 1 further comprising a communication path established  
2 between the drive controller and the user interface module, the drive information and the user  
3 interface rendering data provided to the user interface module via the communication path.
- 1 6. (Original) The system of claim 5 wherein the communication path is established separate  
2 from a data path with the drive controller.

Appin. Serial No. 10/723,037  
Amendment Dated March 1, 2007  
Reply to Office Action Mailed December 1, 2006

1 7. (Original) The system of claim 1 further comprising a communication path established  
2 between the drive controller and a system controller and between the system controller and the  
3 user interface module, the drive information and the user interface rendering data provided to the  
4 user interface module via the communication path.

1 8. (Original) The system of claim 1 wherein the drive information and the user interface  
2 rendering data is displayed in a graphical user interface.

1 9. (Original) The system of claim 1 wherein the drive controller retrieves updated drive  
2 information based at least in part on input from the user interface module.

1 10. (Original) The system of claim 1 wherein the drive controller receives control  
2 instructions from the user interface module.

1 11. (Currently Amended) A method executed by a processor, comprising:  
2 receiving drive information and graphical user interface rendering data [[from]] generated  
3 by a drive controller at a data access drive of a storage system;  
4 outputting the drive information in a graphical user interface in accordance with the  
5 graphical user interface rendering data; and  
6 receiving an indication of activation of a button in the graphical user interface, wherein  
7 activation of the button is a request for the drive information, and wherein receiving the drive  
8 information and graphical user interface rendering data is in response to the indication of  
9 activation of the button.

1 12. (Currently Amended) The method of claim 11 wherein receiving the drive information  
2 and the graphical user interface rendering data is via a system controller.

1 13. (Currently Amended) The method of claim 11 wherein receiving the drive information  
2 and graphical user interface rendering data is via a separate communications path.

Appl. Serial No. 10/723,037  
Amendment Dated March 1, 2007  
Reply to Office Action Mailed December 1, 2006

1 14. (Currently Amended) The method of claim 11, wherein outputting the drive information  
2 comprises further comprising displaying the drive information in ~~[[a]]~~ the graphical user  
3 interface in accordance with the graphical user interface rendering data.

1 15. (Currently Amended) The method of claim 11 further comprising determining ~~[[a]]~~ the  
2 drive state of a data access drive, the drive information including the drive state.

1 16. (Cancelled)

1 17. (Currently Amended) The method of claim ~~[[16]]~~ 11 further comprising:  
2 receiving a second indication of activation of the button in the graphical user interface;  
3 and  
4 outputting updated drive information ~~[[after]]~~ in the graphical user interface in response  
5 to receiving input from the user interface the second indication.

1 18. (Currently Amended) In an automated storage system having a graphical user interface  
2 including a display and a user interface selection device, a method of providing and selecting  
3 from the display comprising:  
4 receiving activation of a button in the graphical user interface, wherein activation of the  
5 button is a request for drive information of a data access device in the automated storage system;  
6 and  
7 sending an indication regarding the activation of the button to a drive controller at the  
8 data access drive;  
9 responsive to the indication regarding the activation of the button, receiving drive  
10 information and graphical user interface rendering data from [[a]] the drive controller at a data  
11 access drive in the automated storage system; and  
12 displaying the drive information in an application window in the graphical user interface  
13 in accordance with the graphical user interface rendering data.

1 19. (Cancelled)

Appln. Serial No. 10/723,037  
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1 20. (Currently Amended) ~~The computer system of claim 18 wherein the method of claim 18,~~  
2 further ~~comprises~~ comprising:  
3 receiving a second activation of the button;  
4 sending a second indication regarding the second activation of the button to the drive  
5 controller; and  
6 receiving updated drive information that represents a state change of the data access  
7 drive, and corresponding updated graphical user interface rendering data from the drive  
8 controller; and  
9 displaying the updated drive information in the application window ~~if a drive state~~  
10 ~~changes in accordance with the updated graphical user interface rendering data.~~

1 21. (New) The system of claim 1, wherein the user interface rendering data enables drawing  
2 of a graphical image in the user interface.

1 22. (New) The system of claim 1, wherein the drive information generated by the  
2 computer-readable program code comprises a status of the data access drive and operating speed  
3 of the data access drive.

1 23. (New) The system of claim 22, wherein the drive information further comprises an error  
2 rate of the data access drive.

1 24. (New) The system of claim 1, wherein the user interface comprises a graphical user  
2 interface, wherein the user interface rendering data comprises a graphical user interface  
3 rendering data, and wherein the user interface module displays the drive information in a  
4 window of the graphical user interface in accordance with the graphical user interface data.

1 25. (New) The method of claim 11, further comprising sending output regarding activation  
2 of the button to the drive controller, wherein the drive information and graphical user interface  
3 rendering data is generated by the drive controller in response to the output.